

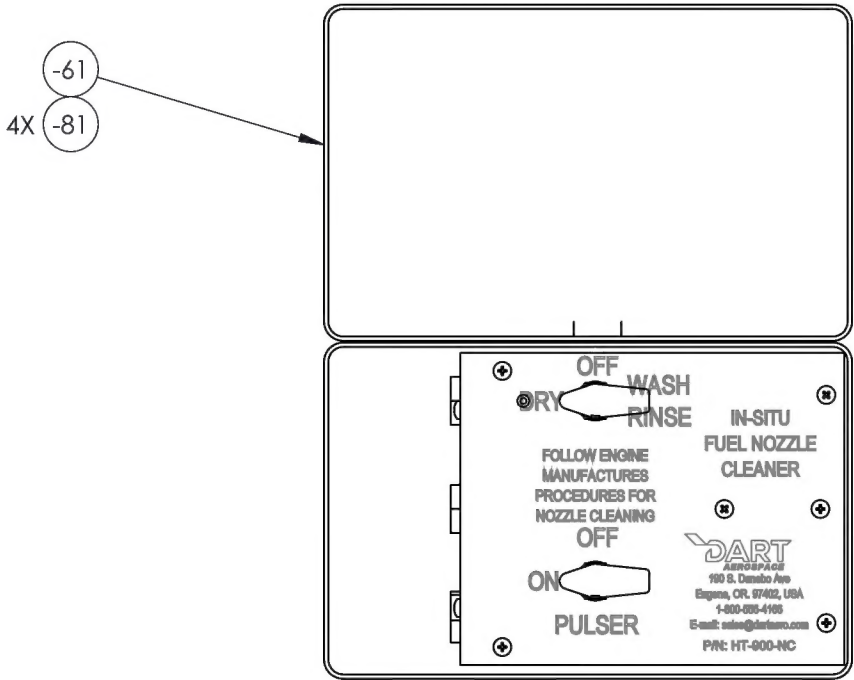
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| ASSY QTY | ASSY QTY | B/O | Part # | QTY. | Description | Material | B/O INFORMATION OR SPECIFICATIONS | PG. |
|----------|----------|-----|--------|------|--|----------|--|-----|
| | | B/O | -01 | 1 | OSCILLATOR | | AIR COMP. SPEC. #59861 | 2 |
| | | B/O | -05 | 2 | LIGHT COUPLING | BRASS | PACIFIC RUBBER #PAR207P-4 | 2 |
| | | | -07 | 1 | CONTROL PANEL PLAQUE | PLASTIC | 6-5/8 X 8-1/8 | 3 |
| | X | | -09 | 1 | FILTER ASSEMBLY | | | 4 |
| | 1 | | -09A | | FILTER BASE | 6061 | 2-3/4 X 2-3/4 X 2-1/4 | 5 |
| | 1 | | -09B | | FILTER HOUSING | 6061 | Ø2-1/2 X 3-7/8 | 6 |
| | 1 | | -09C | | FILTER CLAMP | 304 S.S. | 2-3/4 X 2-3/4 X 3/16 | 7 |
| | 1 | B/O | -09D | | O-RING | VITON | 11-135 MCMASTER-CARR #5267T114 | 4 |
| | 4 | B/O | -09E | | SOCKET HEAD CAP SCREW | SS | 1/4-20 UNC X 3/4 MCMASTER-CARR #92185A540 | 4 |
| | 1 | B/O | -11 | | FILTER ELEMENT | | DR. SHANNON #1300EAL122N1 OR (800B-GC10-CB) | 4 |
| | | B/O | -13 | 1 | 3-WAY 1/4" BALL VALVE | | PORTLAND VALVE & FITTING #B-43XS4 | 2 |
| | | B/O | -15 | 1 | 1/4" BALL VALVE | | PORTLAND VALVE & FITTING #B-43S4 (59G) | 2 |
| | | B/O | -17 | 1 | 1/4" QUICK DISCONNECT FEMALE | BRASS | PORTLAND VALVE & FITTING (SWAGE LOCK #B-QC4-B-4PF) | 2 |
| | | B/O | -19 | 1 | 1/4" F PUSH LOCK TEE | | PACIFIC RUBBER #PAR72PSC-4-4 | 2 |
| | | B/O | -21 | 3 | 1/4" BULK HEAD ANCHOR CONNECTOR (PIPE) | BRASS | PACIFIC RUBBER #PAR207ACBHS-4 | 2 |
| | | B/O | -23 | 1 | 1/4" F PIPE TO F TUBE CONNECTOR | BRASS | PACIFIC RUBBER #PAR66PF-4-4 | 2 |
| | | B/O | -25 | 1 | M TUBE TO M PIPE CONNECTOR | BRASS | PACIFIC RUBBER #PAR48F-6-4 | 2 |
| X | | | -27 | 1 | PLUG ASSEMBLY | | | 8 |
| 1 | | B/O | -27A | | 1/4" PLUG | BRASS | PACIFIC RUBBER #PAR219P-4 (MODIFIED) | 9 |
| 1 | | B/O | -29 | | FLANGED TUBE | BRASS | PACIFIC RUBBER #PARSF-4-4 (MODIFIED) | 10 |
| | | B/O | -31 | 4 | 1/4" TUBE TO NPT 90° ELBOW | BRASS | PACIFIC RUBBER #PAR169PF-4-4 | 2 |
| | | B/O | -33 | 1 | 1/4" TUBE TO NPT | BRASS | PACIFIC RUBBER #PAR68PF-4-2 | 2 |
| | | B/O | -35 | 3 | 1/4" TUBE TO NPT | BRASS | PACIFIC RUBBER #PAR68PF-4-4 | 2 |
| | | B/O | -37 | 1 | 1/4" CHECK VALVE M TO F | BRASS | AOP TECH #410-4M4F-B | 2 |
| | | B/O | -39 | 5 | 1/4" COMPRESSION SLEEVE | BRASS | PACIFIC RUBBER #PAR63PT-4 | 2 |
| | | B/O | -41 | 1 | {.160} 4mm ID. BLUE COILED AIR HOSE 10ft | PLASTIC | (FLEX COIL) MSC #48639009 | 2 |
| | | B/O | -43 | 1 | {.160} 4mm ID GREEN COILED AIR HOSE 10ft | PLASTIC | (FLEX COIL) MSC #48639157 | 2 |
| | | B/O | -45 | 1 | {.160} 4mm ID. RED COILED AIR HOSE 10ft | PLASTIC | PACIFIC RUBBER (FLEX COIL) #COIPR532-10B-R | 2 |
| | | B/O | -48 | 1 | VALVE | | WARDEN FLUID DYNAMICS (NORGREN-HERON VALVE #4021370) | 2 |
| | | | -49 | 1 | CONTROL PANEL | 5052 | .080 X 6-1/2 X 14-1/2 | 11 |
| | | B/O | -51 | 1 | 1/4" CLEAR HOSE | VINYL | 4FT PACIFIC RUBBER (KUR 1/4 X 3/8 CVT) | 2 |
| | | B/O | -53 | 2 | 1/4" PUSH LOCK TO #10-32 W/SEAL | BRASS | PACIFIC RUBBER #PAR68PC-4-0 | 2 |
| | | B/O | -55 | 1 | 1/8" FLARED MALE PLUG | BRASS | PACIFIC RUBBER #PAR639F-4 | 2 |
| | | B/O | -57 | 1 | 1/4" CAP | BRASS | PACIFIC RUBBER #BRE304C-6 | 2 |
| | | B/O | -61 | 1 | CARRYING CASE | | ZERO CORP #ZIP810-A | 1 |
| | | B/O | -63 | 2 | PHILLIPS PAN HEAD SCREW | SS | #10-24 X 5/8 EUGENE FASTENER | 2 |
| | | B/O | -65 | 4 | PHILLIPS HEAD SCREW | SS | #10-32 X 1/2 EUGENE FASTENER | 2 |
| | | B/O | -67 | 4 | PHILLIPS HEAD SCREW | SS | #10-24 X 3/4 MCMASTER-CARR #91772A245 | 2 |
| | | B/O | -69 | 4 | NYLOCK LOCK NUT | SS | #10-24 EUGENE FASTENER | 2 |
| | | B/O | -77 | 1 | HEX HEAD PLUG | BRASS | 1/4 PACIFIC RUBBER #PAR218P-4 | 2 |
| | | B/O | -79 | 2 | PHILLIPS HEAD SCREW | SS | #10-24 X 1-1/2 MCMASTER-CARR #91772A251 | 2 |
| | | B/O | -81 | 4 | SUPPORT BRACKET | | ZERO CORP. #ZSP9-014-3 | 1 |
| ASSY -27 | ASSY -09 | | | | | | | |

HT-900-NC-ADAPTER

| ASSY QTY | ASSY QTY | B/O | Part # | UNIT QTY | Description | Material | B/O INFORMATION OR SPECIFICATIONS | PG. |
|----------|----------|-----|--------|----------|------------------------------|----------|--|-----|
| | | B/O | -71 | 1 | 1/4" RUN TEE | BRASS | PACIFIC RUBBER #PAR2225-P-4 | 2 |
| | | B/O | -73 | 1 | 1/4" CHECK VALVE M TO F | BRASS | AOP TECH #410-4M4F-B | 2 |
| | | B/O | -75 | 1 | 1/4" QUICK DISCONNECT (MALE) | BRASS | PORTLAND VALVE & FITTING (SWAGE LOCK #B-QC4-D-4PM) | 2 |

| REVISIONS | | | | | |
|-----------|---------|--|-----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 1 | | ADDED PANEL DIMENSIONS AND DASH NUMBER. | 12/12/06 | WP | APPROVED |
| 2 | | REFORMATTED FILE ADDED NEW BOM, ADAPTER ASSY., PLAQUE & UNIT PICTURE. | 11/12/07 | WP | RW |
| 3 | | ADDED MISSING -77 HEX HEAD PLUG. | 11/12/07 | WP | RW |
| 4 | | REMOVED -25 TURN TO SIZE OF JIC2404-6-4. ADDED P/N'S TO -55 & -57 , ADDED -79 SCREWS AND PG. 5 FOR FILTER THREADED HOLES. | 8/19/08 | WP | RW |
| 5 | | CH'D B/O FILTER (WESTERN INTEGRATED TECH (NORMAN FILTER #U-114--25 PL) TO HT-900-NC-09 UNIT. ADDED FOUR PARTS PAGES, SECOND BOM PAGE, AND ADJUSTED TO EXCLUDE FILTER PARTS. ALSO DELETED -47 BUSHING AND O-RING. PACIFIC RUBBER #6410-10-4-SS. IT WAS NO LONGER NEEDED. | 10/12/09 | WP | RW |
| 6 | | CH'D 1/4-20(X4) HOLE DEPTH DIM FROM .062 TO .620 PER G.E. SNAPPED DIM TO HOLE CENTERLINE MAKING DIM 1.000. | 10/28/09 | RJC | |
| 6A | | CH'D BOM INFORMATION P/N'S -09C , -25 , -35 , -41 , -57 , -67 , ADDED -81 . | 11/20/09 | RJC | RW |
| 6B | | CH'D -07 BOM INFORMATION FROM BAR-N-DEE TO MCKENZIE LAZER PER R.W. | 11/10/10 | RJC | RW |
| 6C | | UPDATED BOM DESCRIPTIONS & CORRECT PART NUMBERS, DELETED -03 & -59 PER BR. | 1/20/11 | RJC | |
| 6D | | -07 CH'D LOGO WAS HELI-TECH IS DART AEROSPACE, WAS B/O IS MANUFACTURED. CH'D PRECISION ON DIMS TO TEXT AND OVERALL DIMS WAS .XXX IS .XX. -09B CH'D DIM WAS R.O6 IS MAX R.O6. | 1/31/14 | DPD | GE |
| 6E | 14-0165 | UPDATED DRAWING TO SW. -07 DELETED DIMS TO TEXT. -27A CH'D SPECIFICATION WAS PAR22P-4-4 IS PAR219P-4. -61 CH'S SPECIFICATION WAS ZIP 810-B IS ZIP 810-A | 10/2/2014 | DJN | JAG |



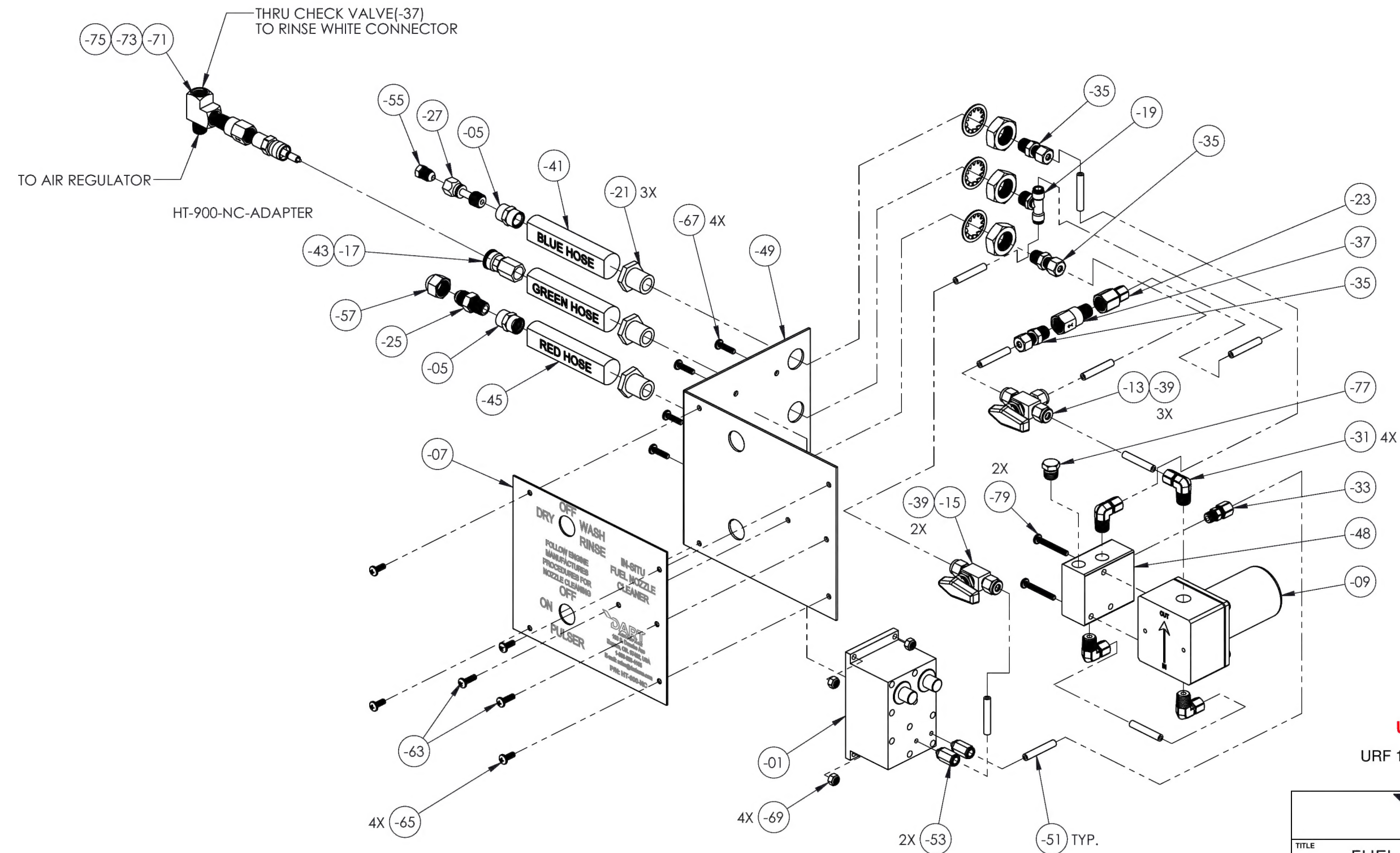
UNDER REVIEW

URF 19-693 19.04.23 (MB)

| DART AEROSPACE | | | |
|---|-----|------------------------|-----------|
| TITLE | | FUEL NOZZLE CLEANER | |
| DWG NO. | | HT-900-NC | REV 6E |
| MAT'L | | DRAWN BY: NELSON | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | APPROVED <i>D Weil</i> | |
| .XXX ± .005 FRACTIONS ± 1/8 | | HEAT TREAT | |
| .XX ± .01 ANGLES ±.5° | | FINISH | |
| .X ± .1 | | SPEC | |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | | USED ON MODEL | |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | | |
| SCALE | 1:4 | DATE | 9/30/2014 |
| | | SHEET 1 OF 15 | |

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| REVISIONS | | | | | |
|-----------|-----|-------------|------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |



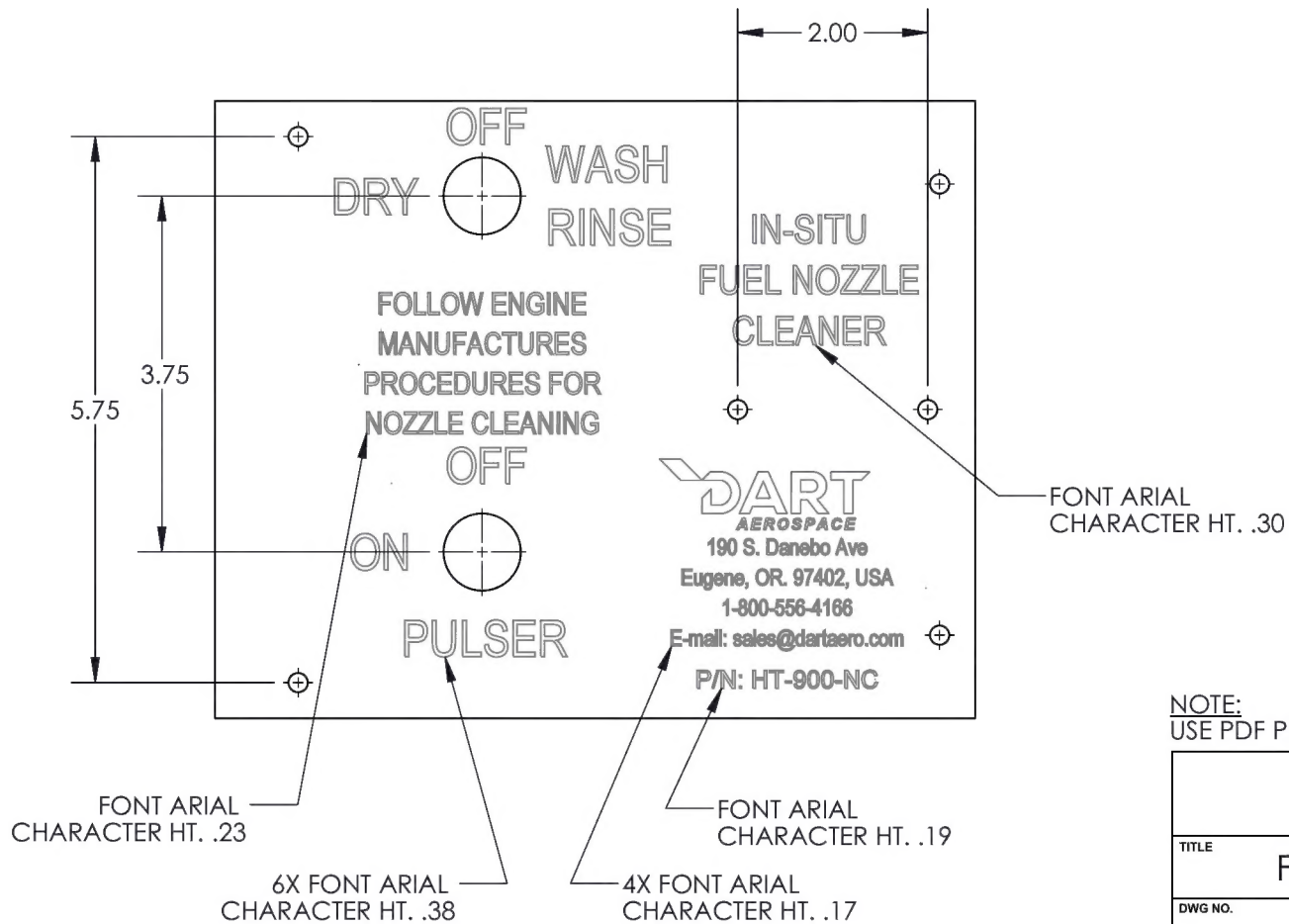
UNDER REVIEW

URF 19-693 19.04.23 (MB)

| DART AEROSPACE | | |
|--|-------------------|-------------------------|
| TITLE FUEL NOZZLE CLEANER | | |
| DWG NO. HT-900-NC | | REV 6E |
| MAT'L | DRAWN BY: NELSON | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | APPROVED <i>D. Weil</i> |
| .XXX ± .005 | FRACTIONS ± 1/8 | TREAT |
| .XX ± .01 | ANGLES ± 5° | FINISH |
| .X ± .1 | | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | |
| SCALE 1:4 | DATE 10/9/2014 | SHEET 2 OF 15 |

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| REVISIONS | | | | | |
|-----------|---------|--|------------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 6D | | -07 CH'D LOGO WAS HELI-TECH IS DART AEROSPACE, WAS B/O IS MANUFACTURED. CH'D PRECISION ON DIMS TO TEXT AND OVERALL DIMS WAS .XXX IS .XX. | 11/5/13 | CFS | |
| 6E | 14-0165 | -07 DELETED DIMS TO TEXT. | 10/10/2014 | DJN | JAG |



UNDER REVIEW

URF 19-693 19.04.23 (MB)

NOTE:
USE PDF PROFILE.

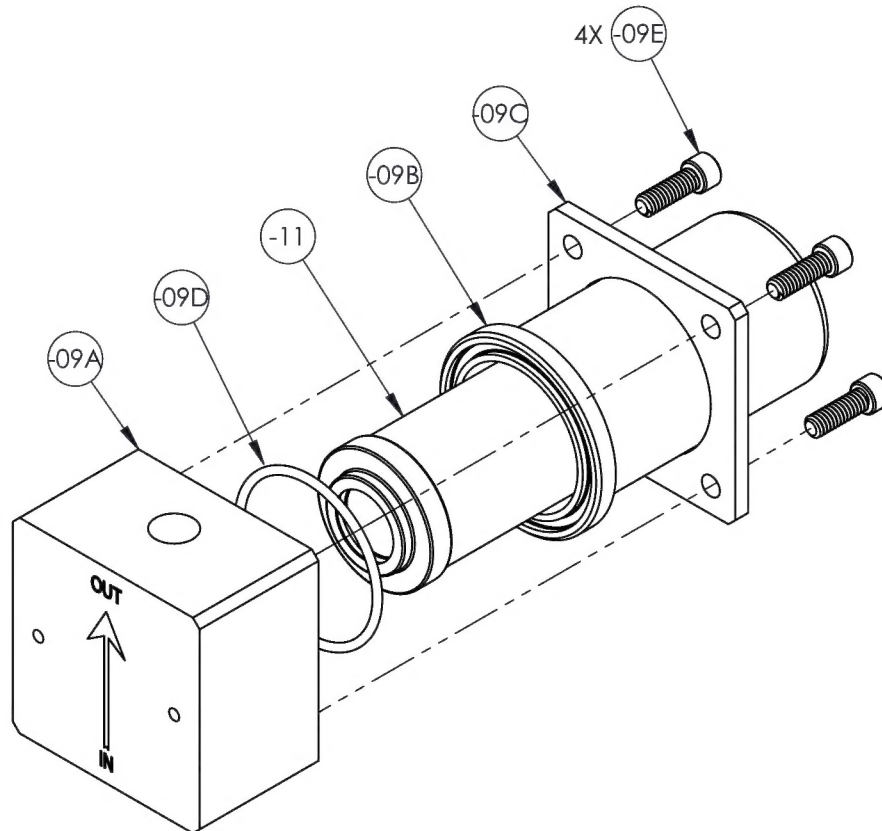
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|--|------------------------|
| DART AEROSPACE | |
| TITLE FUEL NOZZLE CLEANER | |
| DWG NO. HT-900-NC-07 | REV 6E |
| MAT'L PLASTIC | DRAWN BY: NELSON |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .005 | HEAT TREAT |
| .XX ± .01 | FINISH |
| .X ± .1 | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:1 | DATE 9/30/2014 |
| SHEET 3 OF 15 | |

(-07)

CONTROL PANEL PLAQUE

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| REVISIONS | | | | |
|-----------|-----|-------------|------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL |
| | | | | APPROVED |



UNDER REVIEW

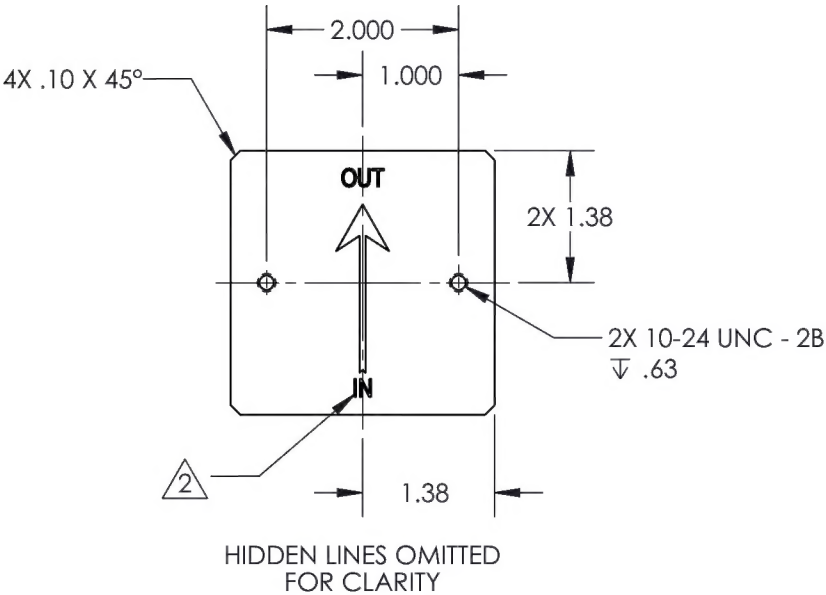
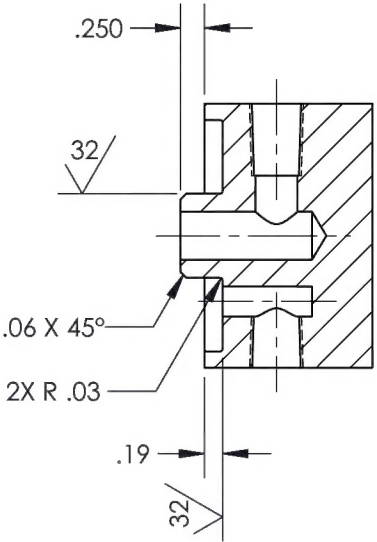
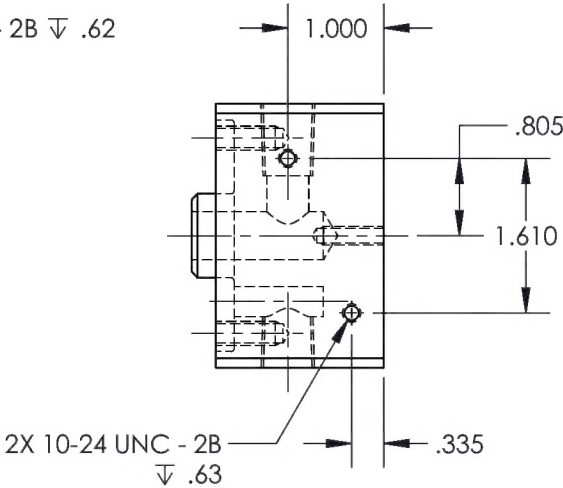
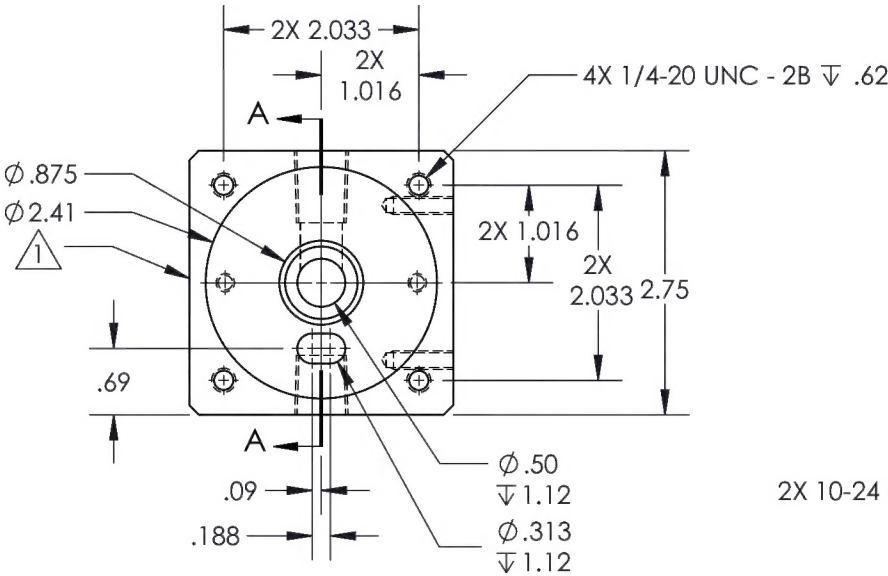
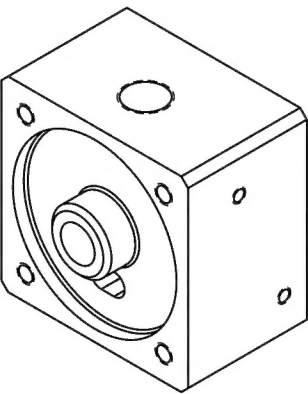
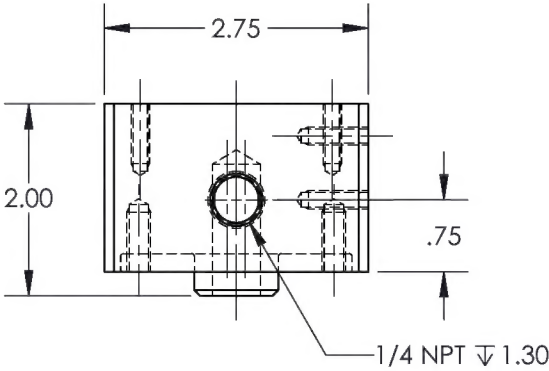
URF 19-693 19.04.23 (MB)

-09
FILTER ASSEMBLY

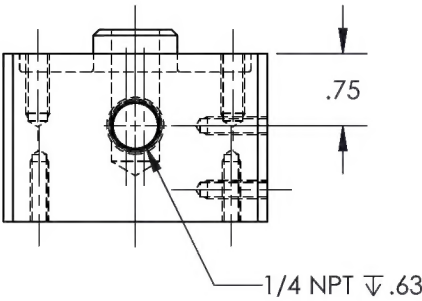
| | |
|--|-------------------------|
| DART AEROSPACE | |
| TITLE FUEL NOZZLE CLEANER | |
| DWG NO. HT-900-NC-09 | REV 6E |
| MAT'L | DRAWN BY: NELSON |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .005 | HEAT |
| .XX ± .01 | TREAT |
| .X ± .1 | FINISH |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 1:2 | DATE 9/25/2014 |
| SHEET 4 OF 15 | |

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| REVISIONS | | | | | |
|-----------|-----|---|----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 5 | | CH'D B/O FILTER (WESTERN INTEGRATED TECH. (NORMAN FILTER #U-114-25 PL) TO HT-900-NC-09 UNIT. ADDED FOUR PARTS PAGES, SECOND BOM PAGE, AND ADJUSTED BOM TO EXCLUDE FILTER PARTS. | 10/12/09 | WP | DW |
| 6 | | CH'D 1/4-20 (X4) HOLE DEPTH DIM FROM .062 TO .620 PER G.E. SNAPPED DIM TO HOLE CENTERLINE MAKING DIM 1.000. | 10/28/09 | RJC | |



SECTION A-A



- NOTE:
- 1 ENGRAVE P/N, S/N, "MADE IN USA"
 - 2 ENGRAVE ARROW,"IN" AND "OUT", WITH ARIAL CHARACTER HT. .19

UNDER REVIEW
URF 19-693 19.04.23 (MB)

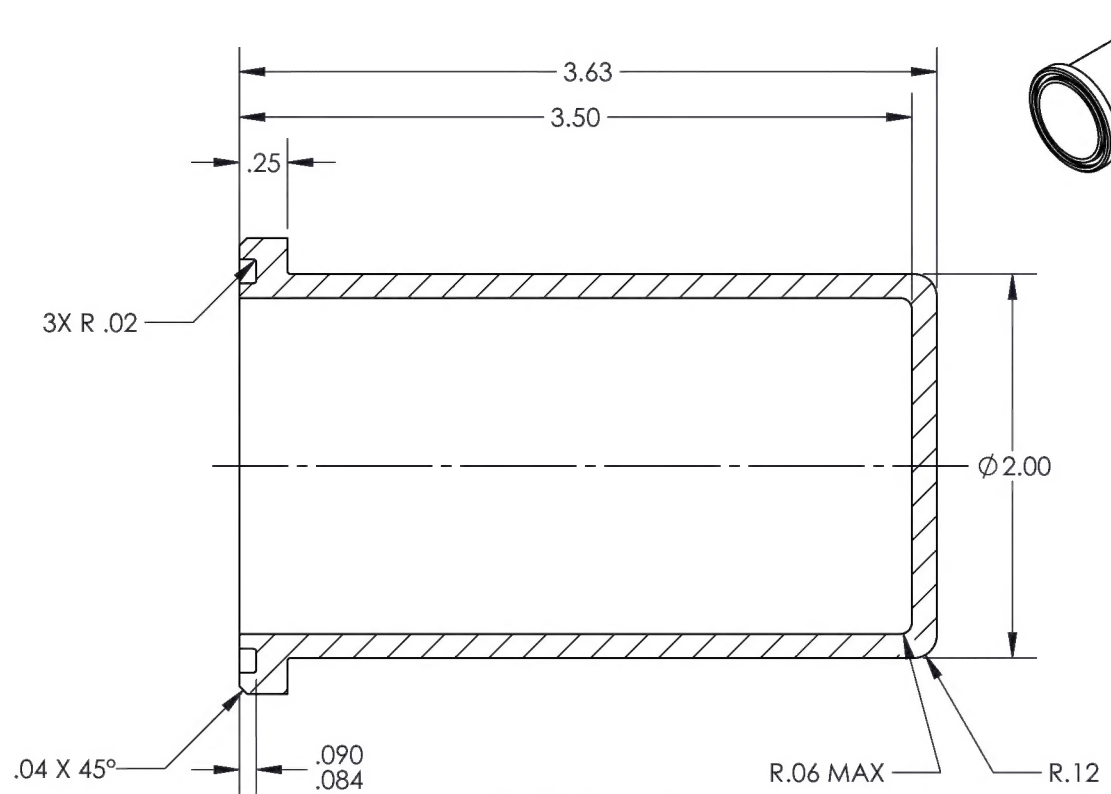
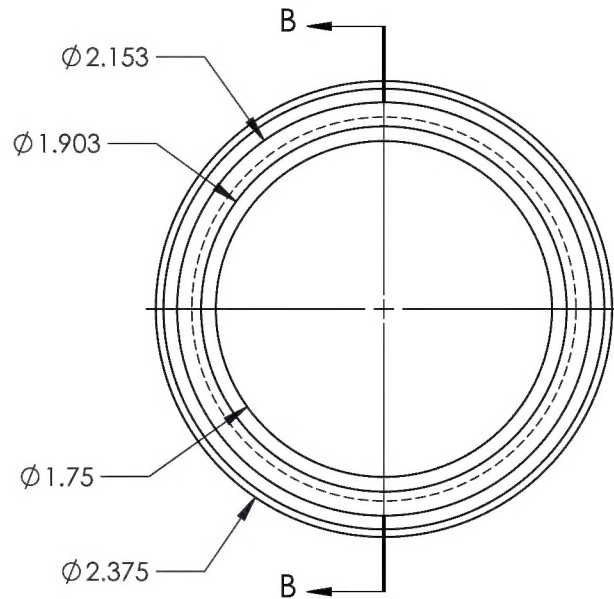
-09A

FILTER BASE

| DART AEROSPACE | | |
|--|---------------------|--|
| TITLE FUEL NOZZLE CLEANER | | |
| DWG NO. HT-900-NC-09A | | REV 6E |
| MAT'L 6061 | DRAWN BY: NELSON | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | APPROVED <i>D. Well</i> |
| .XXX ± .005 | FRACTIONS ± 1/8 | HEAT TREAT |
| .XX ± .01 | ANGLES ± 5° | FINISH BLACK ANODIZE |
| .X ± .1 | | SPEC MIL-A-8625F, TYPE II, CLASS II |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | |
| SCALE 1:2 | DATE 9/25/2014 | SHEET 5 OF 15 |

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| REVISIONS | | | | | |
|-----------|-----|---|----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 5 | | CH'D B/O FILTER (WESTERN INTEGRATED TECH. (NORMAN FILTER #U-114-25 PL) TO HT-900-NC-09 UNIT. ADDED FOUR PARTS PAGES, SECOND BOM PAGE, AND ADJUSTED BOM TO EXCLUDE FILTER PARTS. | 10/12/09 | WP | DW |
| 6D | | -09B CH'D DIM WAS 6.06 IS MAX R.06. | 1/31/14 | DPD | GE |



SECTION B-B

(-09B)

FILTER HOUSING

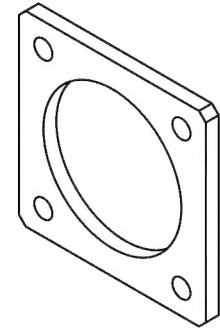
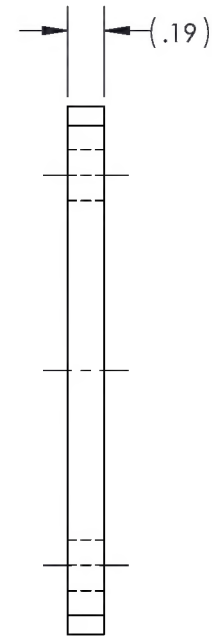
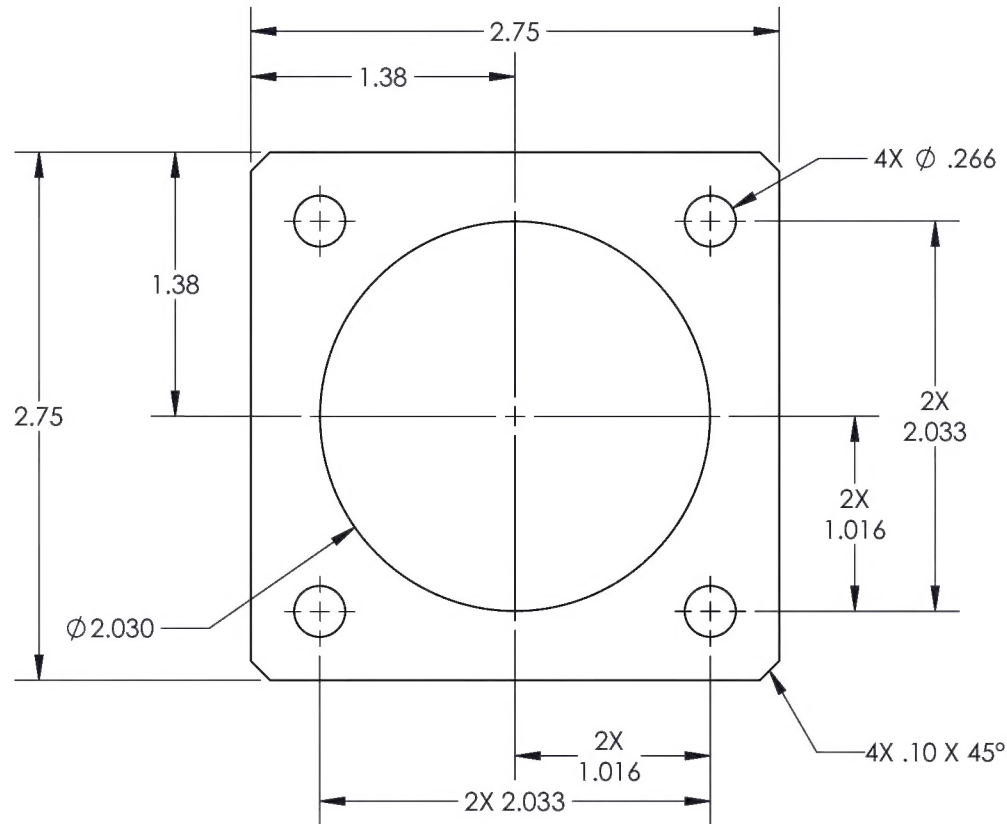
UNDER REVIEW

URF 19-693 19.04.23 (MB)

| | |
|--|-------------------------------------|
| DART AEROSPACE | |
| TITLE FUEL NOZZLE CLEANER | |
| DWG NO. HT-900-NC-09B | REV 6E |
| MAT'L 6061 | DRAWN BY: NELSON |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .005 | HEAT TREAT |
| .XX ± .01 | FINISH BLACK ANODIZE |
| .X ± .1 | SPEC MIL-A-8625F, TYPE II, CLASS II |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 1:1 | DATE 9/25/2014 |
| SHEET 6 OF 15 | |

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| REVISIONS | | | | | |
|-----------|-----|---|----------|---------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL | APPROVED |
| 5 | | CH'D B/O FILTER (WESTERN INTEGRATED TECH. (NORMAN FILTER #U-114-25 PL) TO HT-900-NC-09 UNIT. ADDED FOUR PARTS PAGES, SECOND BOM PAGE, AND ADJUSTED BOM TO EXCLUDE FILTER PARTS. | 10/12/09 | WP | DW |



UNDER REVIEW

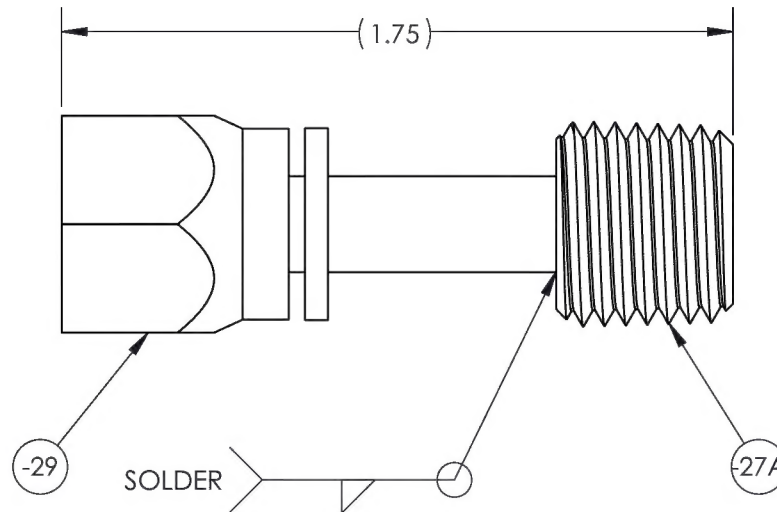
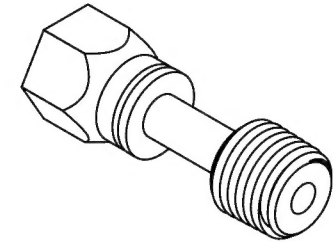
URF 19-693 19.04.23 (MB)


 FILTER CLAMP

| | |
|---|------------------------|
|  | |
| TITLE FUEL NOZZLE CLEANER | |
| DWG NO. HT-900-NC-09C | REV 6E |
| MAT'L 304 S.S. | DRAWN BY: NELSON |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .005 | HEAT |
| .XX ± .01 | TREAT |
| .X ± .1 | FINISH |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 1:1 | DATE 9/25/2014 |
| SHEET 7 OF 15 | |

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| REVISIONS | | | | |
|-----------|-----|-------------|------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL |
| | | | | APPROVED |



UNDER REVIEW

URF 19-693 19.04.23 (MB)

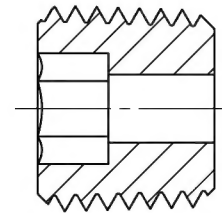
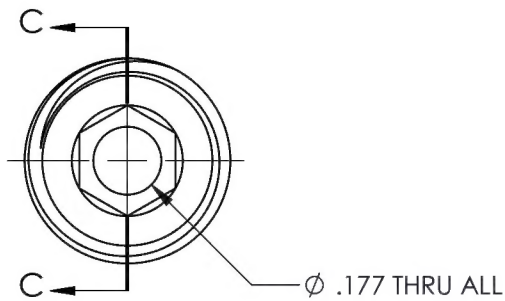
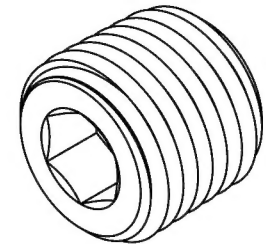
(-27)

PLUG ASSEMBLY

| | |
|--|--------------------------|
| DART AEROSPACE | |
| TITLE FUEL NOZZLE CLEANER | |
| DWG NO. HT-900-NC-27 | REV 6E |
| MAT'L | DRAWN BY: NELSON |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .005 | HEAT |
| .XX ± .01 | TREAT |
| .X ± .1 | FINISH |
| ANGLES ± 5° | SPEC |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | USED ON MODEL |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | |
| SCALE 2:1 | DATE 9/30/2014 |
| SHEET 8 OF 15 | |

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| REVISIONS | | | | |
|-----------|-----|-------------|------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL |
| | | | | APPROVED |



SECTION C-C

UNDER REVIEW

URF 19-693 19.04.23 (MB)

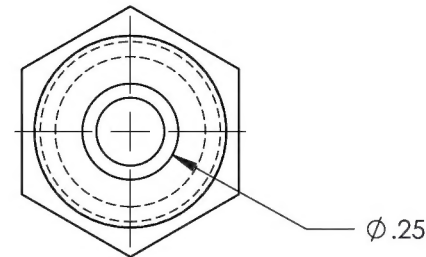
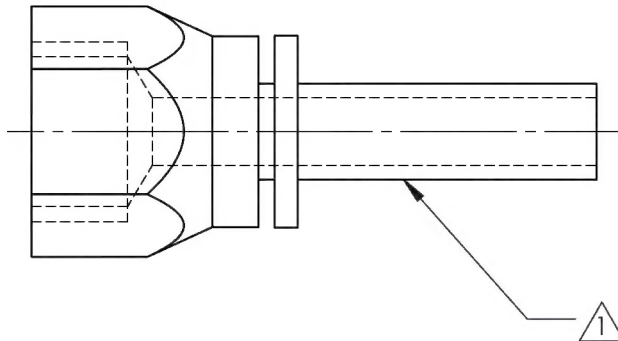
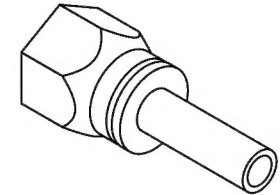
-27A

1/4" PLUG

| | |
|--|------------------------|
| DART AEROSPACE | |
| TITLE FUEL NOZZLE CLEANER | |
| DWG NO. HT-900-NC-27A | REV 6E |
| MAT'L BRASS | DRAWN BY: NELSON |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .005 FRACTIONS ± 1/8 | HEAT |
| .XX ± .01 ANGLES ± 5° | TREAT |
| .X ± .1 | FINISH |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 2:1 | DATE 9/30/2014 |
| SHEET 9 OF 15 | |

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| REVISIONS | | | | |
|-----------|-----|-------------|------|----------|
| REV | ECR | DESCRIPTION | DATE | INITIAL |
| | | | | APPROVED |



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NOTE:

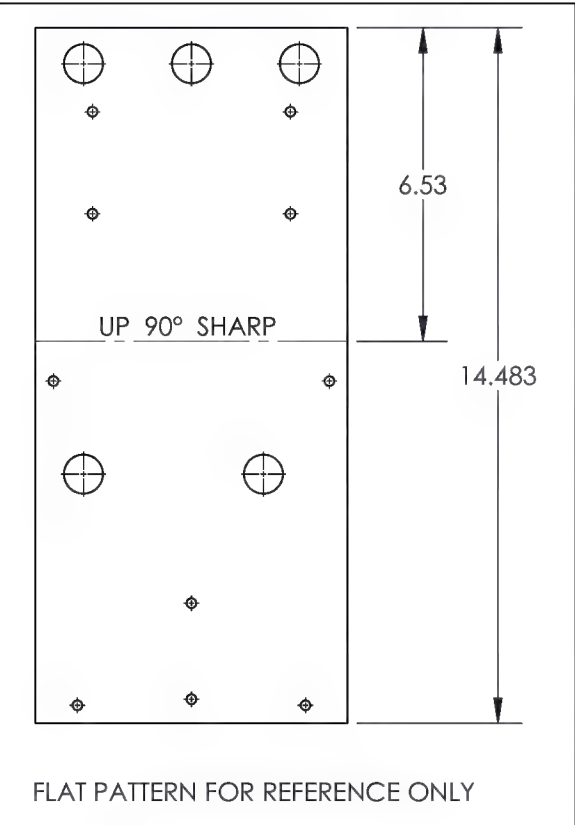
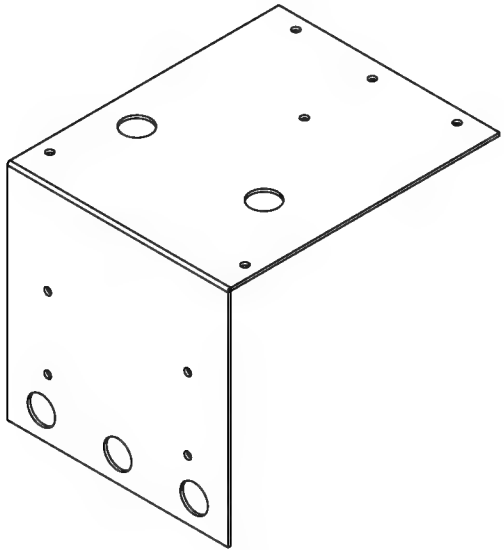
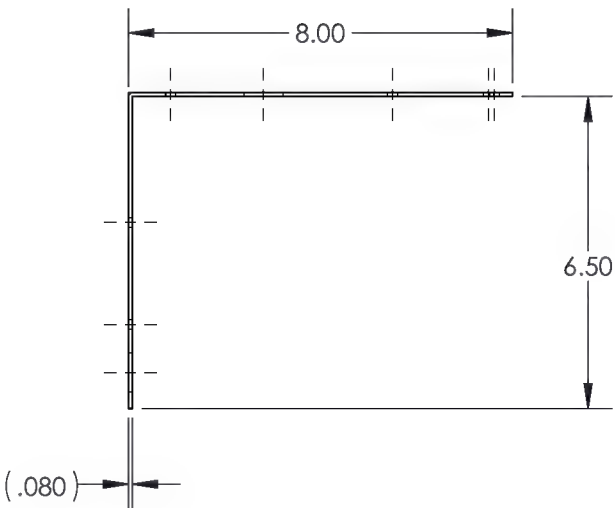
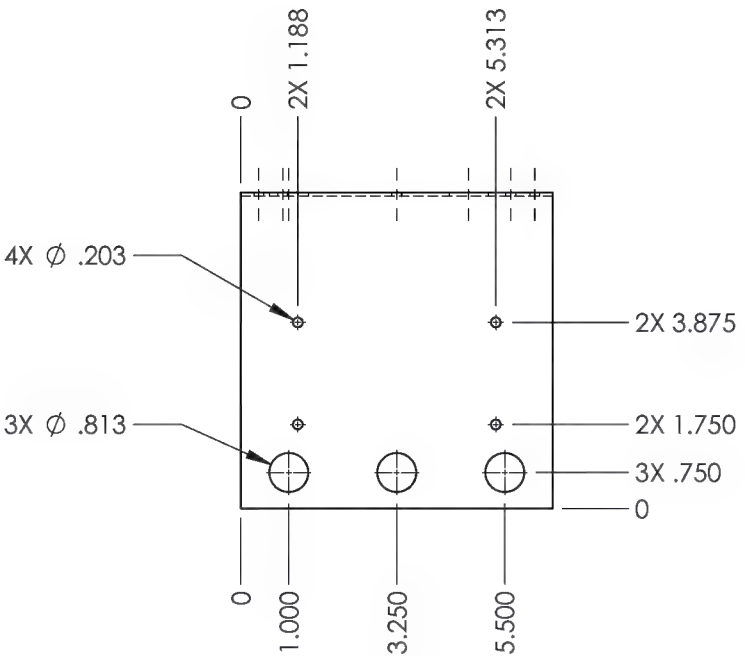
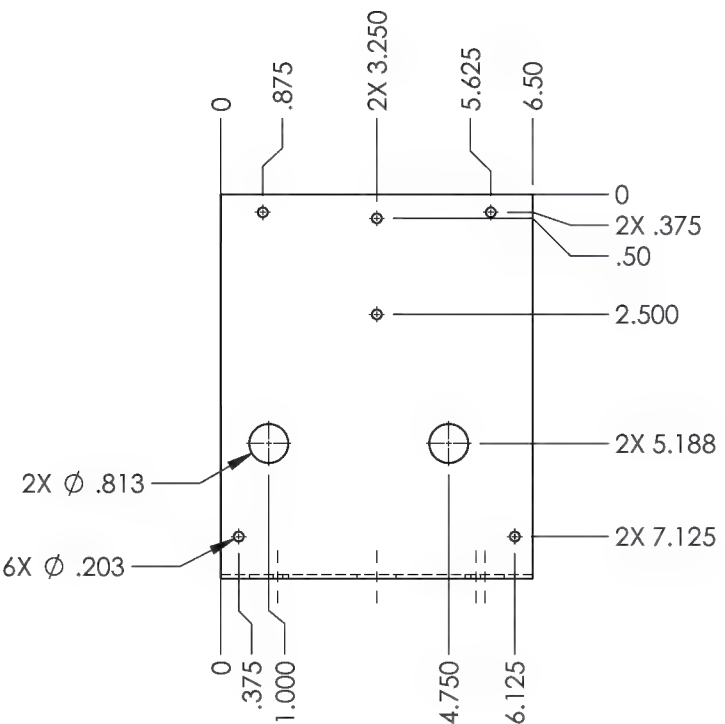
- 1 TURNED DOWN TO Ø.25 REMOVING BARBS.
USE -55 TIGHTENED DOWN TO KEEP PART FROM SPINNING.

(-29)
FLANGED TUBE

| | |
|--|------------------------|
| DART AEROSPACE | |
| TITLE FUEL NOZZLE CLEANER | |
| DWG NO. HT-900-NC-29 | REV 6E |
| MAT'L BRASS | DRAWN BY: NELSON |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i> |
| .XXX ± .005 | HEAT |
| .XX ± .01 | TREAT |
| .X ± .1 | FINISH |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R | SPEC |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | USED ON MODEL |
| SCALE 2:1 | DATE 9/30/2014 |
| SHEET 10 OF 15 | |

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| REV | ECR | DESCRIPTION | DATE | INITIAL |
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-49

CONTROL PANEL

UNDER REVIEW

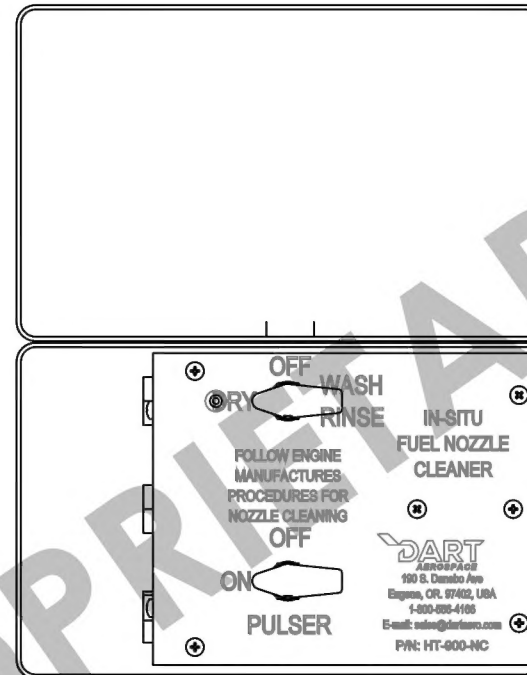
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| DART AEROSPACE | | | |
|--|--|------------------------|----------------|
| TITLE | | FUEL NOZZLE CLEANER | |
| DWG NO. | | HT-900-NC-49 | REV 6E |
| MAT'L 5052 | | DRAWN BY: NELSON | |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | | APPROVED <i>D Weil</i> | |
| .XXX \pm .005 | | TREAT | |
| .XX \pm .01 | | FINISH | |
| .X \pm .1 | | POWDER COAT | |
| 1. BREAK ALL SHARP EDGES .015 x 45° | | SPEC | |
| OR .015R | | GLOSS WHITE | |
| 2. DIMENSIONAL LIMITS APPLY AFTER PLATING | | USED ON MODEL | |
| SCALE 1:2 | | DATE 9/25/2014 | SHEET 11 OF 15 |

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HT-900-NC CUSTOMER BOM

| Part # | UNIT QTY | Description |
|--------|----------|--|
| -01 | 1 | OSCILLATOR |
| -05 | 2 | LIGHT COUPLING |
| -07 | 1 | CONTROL PANEL PLAQUE |
| -09 | 1 | FILTER ASSEMBLY |
| -09D | 1 | O-RING |
| -11 | 1 | FILTER ELEMENT |
| -13 | 1 | 3-WAY 1/4" BALL VALVE |
| -15 | 1 | 1/4" BALL VALVE |
| -17 | 1 | 1/4" QUICK DISCONNECT FEMALE |
| -19 | 1 | 1/4" F PUSH LOCK TEE |
| -21 | 3 | 1/4" BULK HEAD ANCHOR CONNECTOR (PIPE) |
| -23 | 1 | 1/4" F PIPE TO F TUBE CONNECTOR |
| -25 | 1 | M TUBE TO M PIPE CONNECTOR |
| -27 | 1 | PLUG ASSEMBLY |
| -29 | 1 | FLANGED TUBE |
| -31 | 4 | 1/4" TUBE TO NPT 90° ELBOW |
| -33 | 1 | 1/4" TUBE TO NPT |
| -35 | 3 | 1/4" TUBE TO NPT |
| -37 | 1 | 1/4" CHECK VALVE M TO F |
| -39 | 5 | 1/4" COMPRESSION SLEEVE |
| -41 | 1 | (.160) 4mm ID. BLUE COILED AIR HOSE 10ft |
| -43 | 1 | (.160) 4mm ID GREEN COILED AIR HOSE 10ft |
| -45 | 1 | (.160) 4mm ID. RED COILED AIR HOSE 10ft |
| -48 | 1 | VALVE |
| -49 | 1 | CONTROL PANEL |
| -51 | 1 | 1/4" CLEAR HOSE |
| -53 | 2 | 1/4" PUSH LOCK TO #10-32 W/SEAL |
| -55 | 1 | 1/8" FLARED MALE PLUG |
| -57 | 1 | 1/4" CAP |
| -63 | 2 | PHILLIPS PAN HEAD SCREW |
| -65 | 4 | PHILLIPS HEAD SCREW |
| -67 | 4 | PHILLIPS HEAD SCREW |
| -69 | 4 | NYLOCK LOCK NUT |
| -77 | 1 | HEX HEAD PLUG |
| -79 | 2 | PHILLIPS HEAD SCREW |
| -81 | 4 | SUPPORT BRACKET |

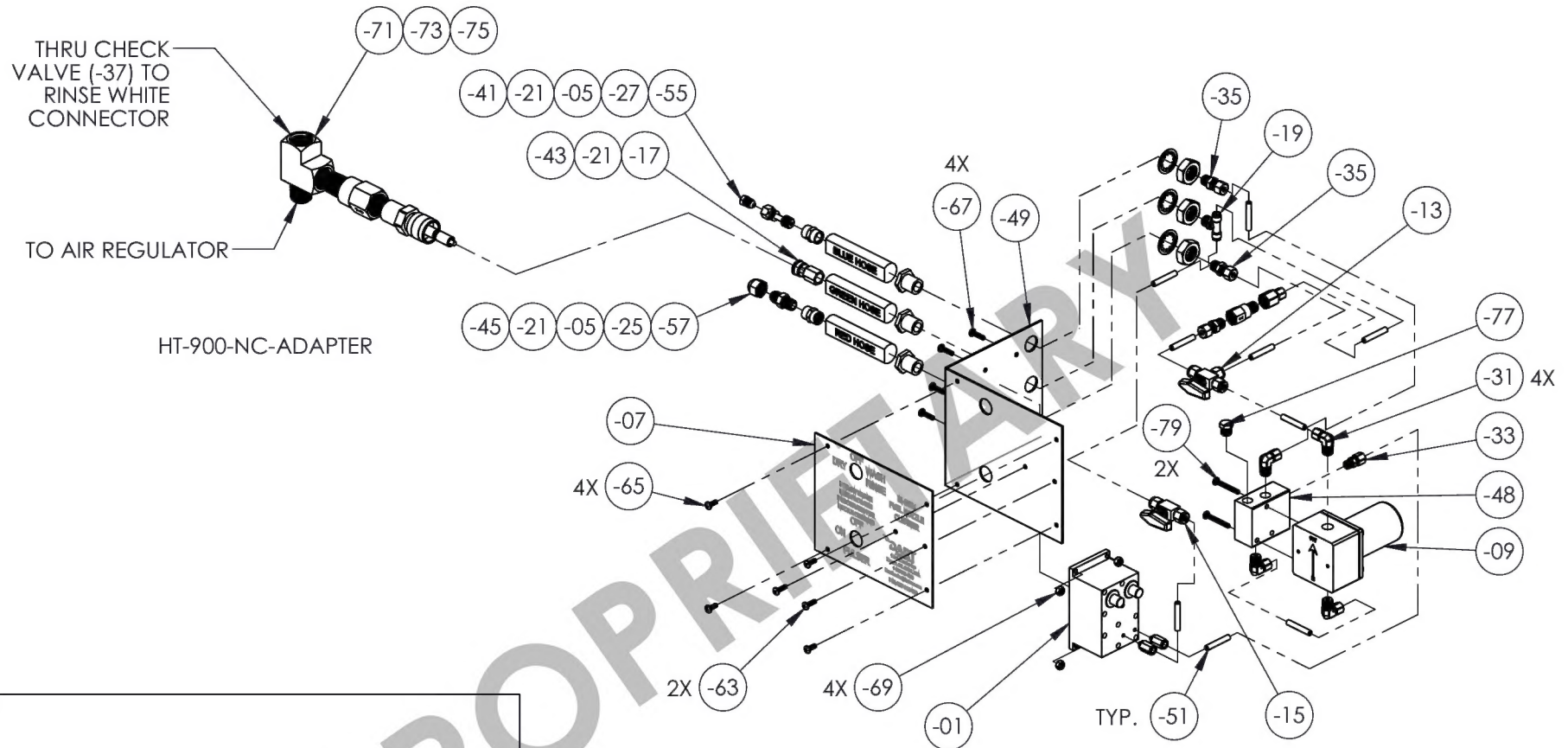


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| | | | |
|---|-------------------|-----------------|----------|
|  190 S. Danebo Ave., Eugene, OR. 97402 1-800-556-4166 e-mail: sales@dartaero.com dartaerospace.com | | | |
| TITLE FUEL NOZZLE CLEANER | | | |
| DWG NO HT-900-NC | REV 6E | CUSTOMER 1 OF 4 | |
| SCALE 1:4 | DATE 9/30/2014 | SHEET | 12 OF 15 |

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NOTES:

1. USE PROPER PIPE THREAD SEALANT ON ALL THREADS.
2. SET OSCILLATOR @80-100 PULSES/MIN.

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DART
AEROSPACE
190 S. Danebo Ave., Eugene, OR. 97402
1-800-556-4166
e-mail: sales@dartaero.com
dartaerospace.com

| | | | |
|-------------------------------------|-------------------|-----------------|-------|
| TITLE FUEL NOZZLE CLEANER | | | |
| DWG NO HT-900-NC | REV 6E | CUSTOMER 2 OF 4 | |
| SCALE 1:8 | DATE 9/30/2014 | SHEET 13 | OF 15 |

INSTRUCTIONS FOR USING THE HT-900-NC SERIES FUEL NOZZLE PULSATING WASH SYSTEM

ENGINE SHOULD BE PERMITTED TO COOL FOR 40 MINUTES BEFORE
PERFORMING FUEL NOZZLE WASH.
REFER TO APPROPRIATE MAINTENANCE MANUAL FOR ENGINE FITTING
LOCATION AND TORQUE VALUES.

1. Turn canister unit WASH RINSE valve to the OFF position.
2. Remove both canister lids.
3. Fill WASH canister with 1 quart Turco 5884 and 4 quarts potable water.
4. Fill RINSE canister with 1 gallon potable water.
5. Close and lock both lids.
6. Remove two gas generator case combustion drain valves, and install suitable drain hoses.
7. Disconnect engine fuel delivery line from flow divider inlet fitting located at 6 o'clock position on engine gas generator case, install and tighten blanking cap assembly at fuel inlet to flow divider dump valve.
8. Disconnect airframe drain line from flow divider dump valve outlet fitting.
9. Gain access to PULSATING FUEL NOZZLE WASH SYSTEM.
10. Turn both of the PULSER and WASH RINSE or DRY valves to the OFF position.
11. Connect BLACK OR BLUE hose to outlet of canister unit, be sure to tighten fittings.
12. Connect GREEN hose to air source adapter.
13. Install and connect RED fluid delivery hose to outlet fitting of flow divider.
14. Turn on separate air source valve or hook up shop air to canister unit, adjust pressure to 60 psi.
15. Agitate WASH solution for 3 to 5 seconds by lifting pressure relief valve on canister.
16. Turn the canister unit's WASH RINSE valve to the WASH position.
17. Turn the PULSER valve to the ON position, PULSER should cycle.
18. Turn WASH RINSE or DRY valve to the WASH RINSE position, flow should begin and the cleaning cycle started. See chart for wash, rinse, and dry times.
19. When wash cycle is completed turn the WASH RINSE or DRY valve, and the PULSER valve to their OFF positions.
20. To Rinse Nozzles, turn canister valve to RINSE, PULSER valve to ON, and the WASH RINSE or Dry valve to the WASH RINSE position.
21. When completed turn the Canister valve, the PULSER valve, and the WASH RINSE Or DRY valve to their OFF positions.
22. To DRY, turn the WASH RINSE or DRY valve to the DRY position.
23. When complete disconnect all hoses and blanking cap. Connect fuel manifold hoses. Install both case drain valves.
24. Relieve the pressure on both canister tanks by lifting the relief valves.
25. Stow both units.
26. Perform and engine ground run and check for leaks.

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| | | | |
|---------------------|-----------|-------|-----------------|
| TITLE | | | |
| FUEL NOZZLE CLEANER | | | |
| DWG NO. | HT-900-NC | REV | CUSTOMER 3 OF 4 |
| SCALE | N/A | DATE | 10/2/2014 |
| | | SHEET | 14 OF 15 |

VALVE POSITIONS

| | Canister | Wash/Rinse Or Dry | Pulser |
|-------------------------------|----------|----------------------|--------|
| Agitate cleaner for 5 seconds | OFF | OFF | OFF |
| Detergent wash for 3 minutes | WASH | WASH | ON |
| Soak for 10 minutes | WASH | OFF | OFF |
| Detergent wash for 3 minutes | WASH | WASH | ON |
| Soak for 10 minutes | WASH | OFF | OFF |
| Rinse for 6 minutes | RINSE | RINSE | ON |
| Air dry for 5 minutes | OFF | DRY | OFF |

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| TITLE | | | |
| FUEL NOZZLE CLEANER | | | |
| DWG NO. | HT-900-NC | REV | CUSTOMER 4 OF 4 |
| SCALE | N/A | DATE | 10/2/2014 |
| | | SHEET | 15 OF 15 |